

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 80-62

WATER RECLAMATION REQUIREMENTS FOR:

L. PEREZ AND SONS
1940 LYDIA LANE
ST. HELENA, CALIFORNIA
NAPA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter Board) finds that:

1. L. Perez and Sons (hereinafter user) filed a report of waste discharge dated November 10, 1980.
2. The user reports that:
 - A. Carneros Mobile Home Park, 4048 Sonoma Road, Napa, discharges only domestic waste from its mobile homes, restaurant and bar to its sewage oxidation ponds.
 - B. Carneros Trailer Park is responsible for the sewage discharge to the oxidation ponds and their operation and maintenance.
 - C. The user will pump wastewater from the oxidation ponds for irrigation of an adjacent 24 acre vineyard which is just north of Highway No. 121 at the junction with Cuttings Wharf Road.
 - D. The user will be responsible for the reclaimed wastewater pumping and irrigation, and the maintenance and operation of his pumping and irrigation facilities.
 - E. The wastewater will be pumped through a screen and the small opening on the emitter which will assure that the quality of wastewater reaching the vineyard is equivalent to at least primary effluent.
3. The user also reports that:
 - A. Only drip irrigation will be used and the rate of application will be one half gallon per hour.
 - B. A support wire will be attached to the grape stakes 42 inches above ground.
 - C. Half way between the stakes, the plastic wastewater irrigation piping will be tied to the support wire and, then, allowed to droop down to 24 inches above the ground near the stakes. An emitter will be installed at this low point in the piping.

- D. Grape canes will be pruned and tied to grow along the support wire at 42 inches above ground.
 - E. Shoots from the grape canes will be tied to grow along either of two wires attached to the grape stakes at 64 inches above ground. Grapes will grow from the shoots and will always be at least 42 inches above the ground.
 - F. No grapes which contact the wastewater or ground in the irrigated area will be harvested.
4. The user further reports that:
- A. There is an irrigation well on site. It has a concrete annular seal to a depth of 20 feet, is gravel packed below the 20 foot depth, has its highest casing perforations at the 45 foot depth, and is surface sealed.
 - B. The piping, into which wastewater is being pumped, will be physically separated from the piping connected to the well.
 - C. No emitter on the wastewater irrigation piping will be located within seven feet of the irrigation well casing.
5. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) in April 1975. The Basin Plan contains water quality objectives for the Napa Valley area.
6. The beneficial uses of the Napa River and its tributaries are:
- A. Domestic water supply for irrigating family gardens.
 - B. Agricultural water supply for stock watering, irrigation and frost protection.
 - C. Water contact recreation.
 - D. Fish migration and habitat.
 - E. Preservation and enhancement of fish, wildlife and other aquatic resources.
 - F. Esthetic enjoyment.
7. The beneficial uses of the Napa Valley ground waters as set forth in the Basin Plan includes:
- A. Domestic water supply.
 - B. Agricultural water supply.

8. Section 13523 of the California Water Code provides that a Regional Board, after consulting with and receiving the recommendations of the State Department of Public Health, and if it determines such action to be necessary to protect the public health, safety, or welfare, shall prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water. The use of reclaimed water for the purpose specified in Finding 2 could affect the public health, safety, or welfare, and requirements for this use are, therefore, necessary in accordance with the Water Code.
9. The water quality objectives for reclaimed wastewater, as set forth in the Basin Plan, specify those limits prescribed in Title 17, Section 8025 through 8050, California Administrative Code. These objectives have been superseded by Title 22, Section 60301 - 60357, California Administrative Code.
10. These water reclamation requirements are in conformance with the state-wide Wastewater Reclamation Criteria established by the State Department of Health and are in conformance with the Policy and Action Plan for Water Reclamation adopted by the State Water Resources Control Board in January 1977.
11. The proposed use of reclaimed wastewater involves a minor alteration to land and as such is exempt from the provisions of the Environmental Quality Act of 1970 as a Class 4 exemption pursuant to Section 15104 of the California Administrative Code (State EIR Guidelines). The project will not have a significant effect on the environment.
12. The Board has notified the user and interested agencies and persons of its intent to prescribe water reclamation requirements for the proposed use and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
13. This Board at a public meeting heard and considered all comments pertaining to this reuse.

IT IS HEREBY ORDERED, that pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder, that the user shall comply with the following:

A. Reclaimed Wastewater Quality Specification

The quality of the reclaimed wastewater, as applied to the vineyard, shall be at least equivalent to that of primary effluent and meet the following limitation:

Settleable Solids - 0.5 milliliter/liter-hour, maximum.

B. Reclaimed Wastewater Use Limitations

1. The pumping, distribution or use of reclaimed wastewater shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The reclaimed wastewater shall be used only for drip irrigation of vineyards.
3. No grapes shall be harvested which contact the irrigating wastewater or the ground in the irrigation area.
4. Only grapes used for the production of wine shall be grown in the irrigated vineyards.
5. Wastewater shall not be used on, or allowed to contact, producing vineyards for at least 30 days prior to the harvest of the grapes each year.
6. Use of reclaimed wastewater shall be limited to the area specified in Finding 2.C. of this Order unless written authorization is obtained from the Executive Officer.
7. Areas irrigated with reclaimed wastewater shall be clearly identified with posted notices to the public. The method and form of notification shall be subject to the review and approval of the Executive Officer.
8. All equipment, including pumps, piping, valves, etc., which may at any time contain wastewater shall be adequately and clearly identified with warning signs. The user shall make all necessary provisions, in addition, to inform the public that the liquid contained therein is sewage and is unfit for human consumption. Workers must be informed that a health risk does exist with the use of reclaimed wastewater and that contact with it should be minimized.
9. No reclaimed wastewater used for irrigation shall be allowed to escape to any area outside the irrigation areas, either by surface flow or airborne spray.
10. Wastewater irrigation ponding which could provide a breeding area for mosquitoes shall be prevented.
11. Reclaimed wastewater shall be applied to irrigation areas in a manner which will prevent public contact with the wastewater.
12. No wastewater emitter on the irrigation piping shall be located within seven feet of the irrigation well casing.
13. The wastewater shall not cause degradation of any ground water so as to impair beneficial use.

14. The user shall maintain in good working order and operate as efficiently as possible any facility or system installed by the user to achieve compliance with these water reclamation requirements.
15. Collected screenings removed from liquid waste shall be hauled to a class II solids waste disposal site or worked into the vineyard land in a way that will not cause odor or nuisance.

C. Provisions

1. If a Reclaimed Wastewater Use Limitation should be violated, the user shall, immediately, terminate pumping of wastewater into the irrigation piping. Pumping shall not be resumed until the user has corrected all violations and conditions which would permit the violations to recur.
2. The user shall comply with the Self-Monitoring Program as ordered by the Executive Officer.
3. The user shall permit the Regional Board:
 - (a) Entry upon premises in which wastewater is used for irrigation or in which any required records are kept;
 - (b) Access to copy any records required to be kept under terms and conditions of this Order;
 - (c) Inspection of monitoring equipment or records, and
 - (d) Sampling of any discharge.
4. The user shall file with this Board a report of any material change or proposed change in the character, treatment, or volume of wastewater to be used for irrigation. For the purpose of these requirements, this includes any proposed change in the method of applying the wastewater for irrigation or in the boundaries, or ownership of the property.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on December 2, 1980.

FRED H. DIERKER
Executive Officer

Attachment:
Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

L. Perez and Sons

1940 Lydia Lane

St. Helena, CA - Napa County

ORDER NO. 80-62

I. Inspections:

The User shall inspect every two weeks whenever wastewater is used and submit reports on the inspections to the Regional Water Quality Control Board monthly (by the fifteenth of the following month).

No inspections or reports are required when wastewater is not used.

II. Inspection Stations:

A. The User will make the required observations on the periphery of the approved irrigation area and at stations not to exceed 1000 feet apart. A sketch showing the stations shall be submitted with the first self-monitoring report and subsequent self-monitoring reports when the station location is changed or a violation is noted.

B. Station designation will be I-1 thru I-n.

III. Inspection Observations:

The User shall make the designated observations and file the report in Attachment A.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with water reclamation requirements established in Regional Board Order No. 80-62.
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the dis-charger, and revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Attachment:
Attachment A

Effective Date 12-5-80

Attachment A

User's Self-Monitoring Report

1. Name of User: _____

2. Month and year: _____

3. Circle dates that wastewater was received:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

21 22 23 24 25 26 27 28 29 30 31

4. Estimate of total gallons used for the month _____

5. State whether all wastewater was pumped through a screen and emitter opening of not more than 0.025 inch diameter. _____.
(If not, list the dates and submit a settleable solids analyses of the applied wastewater for each of those days).

6. Required Weekly Observations

Fill in the date of the inspection and write "yes" or "no" for each observation.

Date					
Observed Escape Of Wastewater by surface flow or airborne spray					
Wastewater used on unauthorized areas					
Odor from Wastewater					
Mosquitoes from wastewater ponding					
Employees not informed about wastewater use and precautions to be taken					
Public contact with wastewater					
Any food crops other than wine grapes grown in irrigation area					

If any of the observations were yes, a written report containing the following information shall be submitted:

- (1) State time when noted violation(s) was observed and show its location on an enclosed map.
- (2) Explain cause and extent of violation(s) observed.
- (3) Describe corrective action taken and the dates compliance was achieved and irrigation was resumed.

7. I certify that the information in this report is true.

Signature of User